

Product Datasheet

Synaptotagmin 2 Antibody

NB100-91297

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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NB100-91297**Synaptotagmin 2 Antibody**

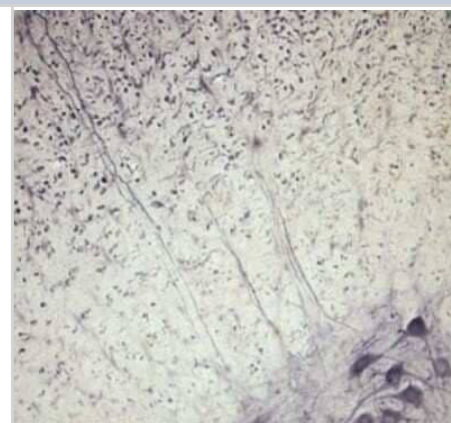
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute in 0.1 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the sample size is provided in reconstituted format.
Isotype	IgG
Purity	Unpurified
Buffer	Lyophilized from whole antisera

Product Description	
Description	Novus Biologicals Rabbit Synaptotagmin 2 Antibody (NB100-91297) is a polyclonal antibody validated for use in IHC and WB. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	127833
Gene Symbol	SYT2
Species	Human, Mouse, Rat, Primate
Reactivity Notes	Marmoset
Immunogen	A synthetic peptide from rat Synaptotagmin 2 conjugated to blue carrier protein was used as the antigen.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunohistochemistry 1:1000-1:2000, Immunohistochemistry-Paraffin 1:1000-1:2000

Images

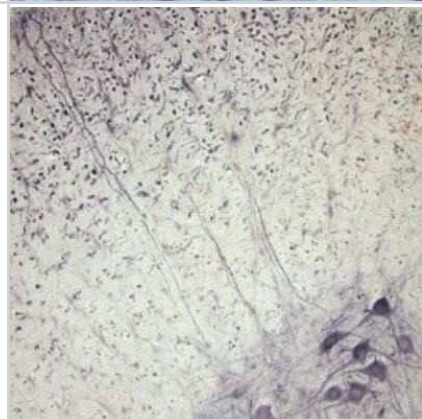
Immunohistochemistry: Synaptotagmin 2 Antibody [NB100-91297] - IHC on rat spinal cord using Rabbit antibody to Synaptotagmin 2 (80-130) at 1 : 3000 dilution. Pre-absorption of the antibody with the immunising peptide completely abolishes the immunostaining (not shown).



Immunohistochemistry: Synaptotagmin 2 Antibody [NB100-91297] - IHC on rat spinal cord using Rabbit antibody to rat, mouse Synaptotagmin-2: whole serum at 1:3000 dilution. Pre-absorption of the antibody with the immunising peptide completely abolishes the immunostaining (not shown).



Immunohistochemistry: Synaptotagmin 2 Antibody [NB100-91297] - IHC on rat spinal cord using Rabbit antibody to rat, mouse Synaptotagmin-2 (Synaptotagmin II, SytII, SYT2): whole serum at 1 : 3000 dilution. Pre-absorption of the antibody with the immunising peptide completely abolishes the immunostaining (not shown).



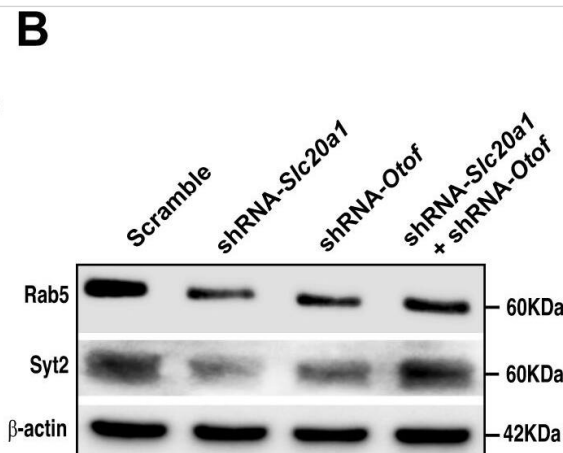
Immunohistochemistry: Synaptotagmin 2 Antibody [NB100-91297] - IHC on rat spinal cord using Rabbit antibody to rat, mouse Synaptotagmin-2 (Synaptotagmin II, SytII, SYT2): whole serum at 1 : 3000 dilution. Pre-absorption of the antibody with the immunising peptide completely abolishes the immunostaining (not shown).



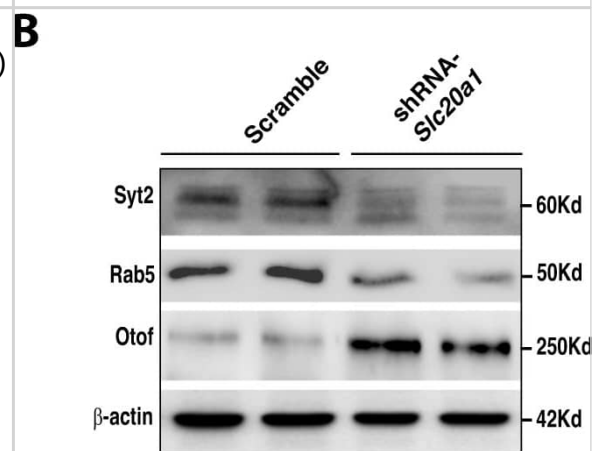
Immunohistochemistry: Synaptotagmin 2 Antibody [NB100-91297] - IHC on rat spinal cord using Rabbit antibody to rat, mouse Synaptotagmin-2 (Synaptotagmin II, SytII, SYT2): whole serum at 1 : 3000 dilution. Pre-absorption of the antibody with the immunising peptide completely abolishes the immunostaining (not shown).



Restoration of Otoferlin levels attenuates the cognitive deficits and membrane trafficking protein perturbations observed after Slc20a1 downregulation. A Relative expression of Slc20a1 and Otof in hippocampi injected with either shRNA-Scramble, shRNA-Slc20a1, or shRNA-Slc20a1 + shRNA-Otof. B Western blot analyses of Otof, Syt2 and Rab5 in hippocampi from Scramble (n = 4), shRNA-Slc20a1 (n = 4), shRNA-Otof (n = 5) or shRNA-Slc20a1 + shRNA-Otof (n = 5) mice. β -actin was used as a loading control for each sample. C Relative GABA measurements performed in Scramble, shRNA-Slc20a1 or shRNA-Slc20a1 + shRNA-Otof. D–E Morris Water Maze (D) and Novel Object Recognition (NOR) (E) was performed in 3-month-old mice injected with either Scramble, shRNA-Slc20a1 or shRNA-Slc20a1 + shRNA-Otof. FGABR2, Kcnj10, Syt2 and Syt1 relative expression in hippocampi from Scramble, shRNA-Slc20a1 or shRNA-Slc20a1 + shRNA-Otof - injected mice. All behavioral tests were performed using at least 2 independent animal cohorts. G Western blot analyses of Otof, GABAR2, and the total and phosphorylated form of GluA1 (Ser845 and 831) in HpC injected with either Scramble, shRNA-Slc20a1, shRNA-Otof or shRNA-Slc20a1 + shRNA-Otof. GAPDH was used as a loading control for each sample. Results are given as mean $\pm$ s.e.m. * $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$ by two-tailed Student's t-test or 2-way ANOVA followed by Tukey's multiple comparisons test compared to the control group. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41419-023-06292-z>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



PiT-1 promotes synaptic vesicle fusion and membrane trafficking in hippocampal neurons. A Synaptotagmin 2 (Syt2), Synaptotagmin 1 (Syt1) and Otoferlin (Otof) relative gene expression in the HpC after local stereotactic injections of either Scramble or shRNA-Slc20a1. B Western Blot analyses of Syt2, Rab5 and Otof in HpC after injection of AAVs expressing either Scramble or shRNA-Slc20a1. β -actin was used as a loading control for each sample. C Otoferlin, GABAR2, Syt2 and EAA1 immunofluorescence (scale bar = 50 μ m) on the HpC CA3 region (n = 5) after Slc20a1 silencing and compared to controls. Brains were collected from two independent cohorts of mice for each group. Results are given as mean $\pm$ s.e.m. * $p \leq 0.05$, ** $p \leq 0.01$, *** $p \leq 0.001$, **** $p < 0.0001$, NS: not significant by two-tailed Student's t-test compared to control group. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41419-023-06292-z>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.





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Products Related to NB100-91297

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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